



SPYWOLF

Security Audit Report



Completed on
June 23, 2023

@SPYWOLFNETWORK



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SPYWOLF.CO





OVERVIEW

This audit has been prepared for **Masumi** to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

”

- SPYWOLF Team -





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Masumi



PROJECT DESCRIPTION

According to their whitepaper:

We are creating a token to harness the energy and enthusiasm of the meme coin season. Our logo and branding reflect this vibrant community-driven spirit. Our goal is to not only capture the excitement but also provide sustainable long-term value to our holders.

By leveraging our presence in the greater CNFT marketplace, we aim to create a token that combines the momentum of meme coins with opportunities for broader engagement and value creation.

Release Date: Presale starts in June, 2023

Category: Meme token



CONTRACT INFO

Token Name
Masumi

Symbol
MASUMI

Contract Address
0x35dA979b95F3940902C296BE232CCd8DAFB67909

Network
Binance Smart Chain

Language
Solidity

Deployment Date
Jun 22, 2023

Verified?
Yes

Total Supply
100,000,000

Status
Launched

TAXES

Buy Tax
3%

Sell Tax
3%



Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



TOKEN TRANSFERS STATS

Transfer Count	4
Uniq Senders	2
Uniq Receivers	4
Total Amount	200000000 MASUMI
Median Transfer Amount	47918500 MASUMI
Average Transfer Amount	50000000 MASUMI
First transfer date	2023-06-22
Last transfer date	2023-06-22
Days token transferred	1

SMART CONTRACT STATS

Calls Count	12
External calls	5
Internal calls	7
Transactions count	7
Uniq Callers	3
Days contract called	1
Last transaction time	2023-06-22 21:28:13 UTC
Created	2023-06-22 21:21:01 UTC
Create TX	0xded07b925f80cbc64fcb78bd72b98dd1fdd440731bc559ae83c00d99dd4b39ab
Creator	0xcbd3ecf0ce5886ab4aafd2df741a108af0b63881



VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed



THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



FOUND THREATS

Medium Risk

Owner can change contract's auto swap settings.

If swapAndLiquifyEnabled is true, minimumTokensBeforeSwap is set to 0 and contract's token balances are 0, contract will halt and selling will fail.

```
function setMinTokensBeforeSwap(uint256 newMinTokensBeforeSwap) external onlyOwner() {
    minimumTokensBeforeSwap = newMinTokensBeforeSwap;
}

function setSwapAndLiquifyEnabled(bool _enabled) public onlyOwner {
    swapAndLiquifyEnabled = _enabled;
    emit SwapAndLiquifyEnabledUpdated(_enabled);
}

function _transfer(address sender, address recipient, uint256 amount) private returns (bool) {
    .....
    uint256 contractTokenBalance = balanceOf(address(this));
    bool overMinimumTokenBalance = contractTokenBalance >= minimumTokensBeforeSwap;

    if (overMinimumTokenBalance && !inSwapAndLiquify && !isMarketPair[sender] && swapAndLiquifyEnabled)
    {
        if(swapAndLiquifyByLimitOnly)
        {
            contractTokenBalance = minimumTokensBeforeSwap;
            swapAndLiquify(contractTokenBalance);
        }
        .....
    }
}
```

- Recommendation:
 - Ensure that minimumTokensBeforeSwap state variable's value is always above 1 token (consider decimals)

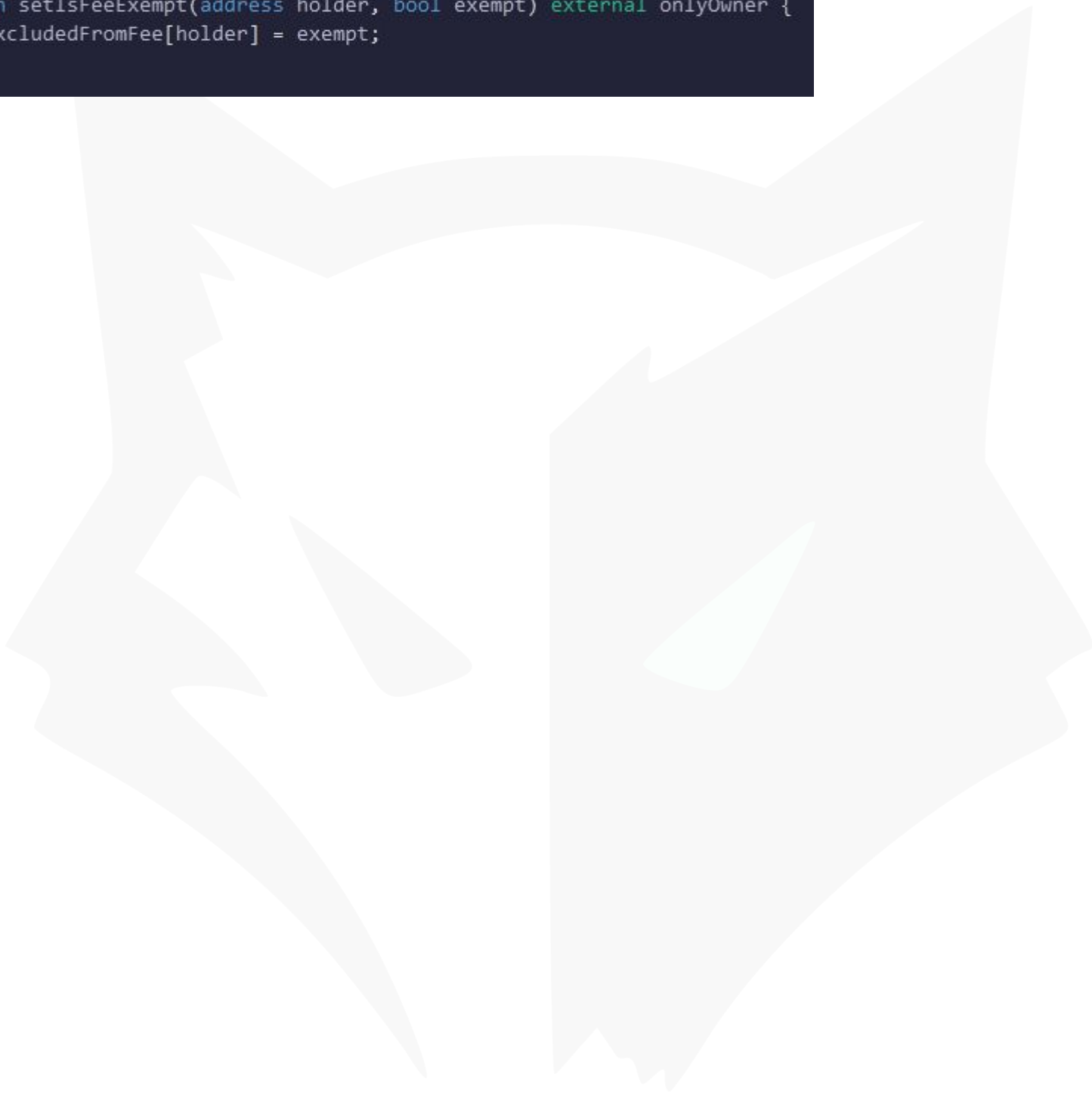


Informational

Owner can exclude address from fees.

When address is excluded from fees, the user will receive the whole amount of the bought, sold and/or transferred tokens.

```
function setIsFeeExempt(address holder, bool exempt) external onlyOwner {  
    isExcludedFromFee[holder] = exempt;  
}
```





RECOMMENDATIONS FOR

GOOD PRACTICES

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

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GOOD PRACTICES FOUND

- ✓ The owner cannot mint new tokens after deployment
- ✓ The owner cannot set a transaction limit
- ✓ The smart contract utilizes "SafeMath" to prevent overflows



There is no information about the initial tokens distribution based on the project's whitepaper and/or website.

TOKENOMICS



THE TEAM

! The team is anonymous

KYC INFORMATION

! No KYC

We recommend the team to get a KYC in order to ensure trust and transparency within the community.





WEBSITE

Website URL

<https://www.masumichain.com/>

Domain Registry

<https://www.hostinger.com/>

Domain Expiration

2024-06-22

Technical SEO Test

Passed

Security Test

Passed. SSL certificate present

Design

Single page design with appropriate color scheme and graphics.

Content

The information helps new investors understand what the product does right away. No grammar mistakes found.

Whitepaper

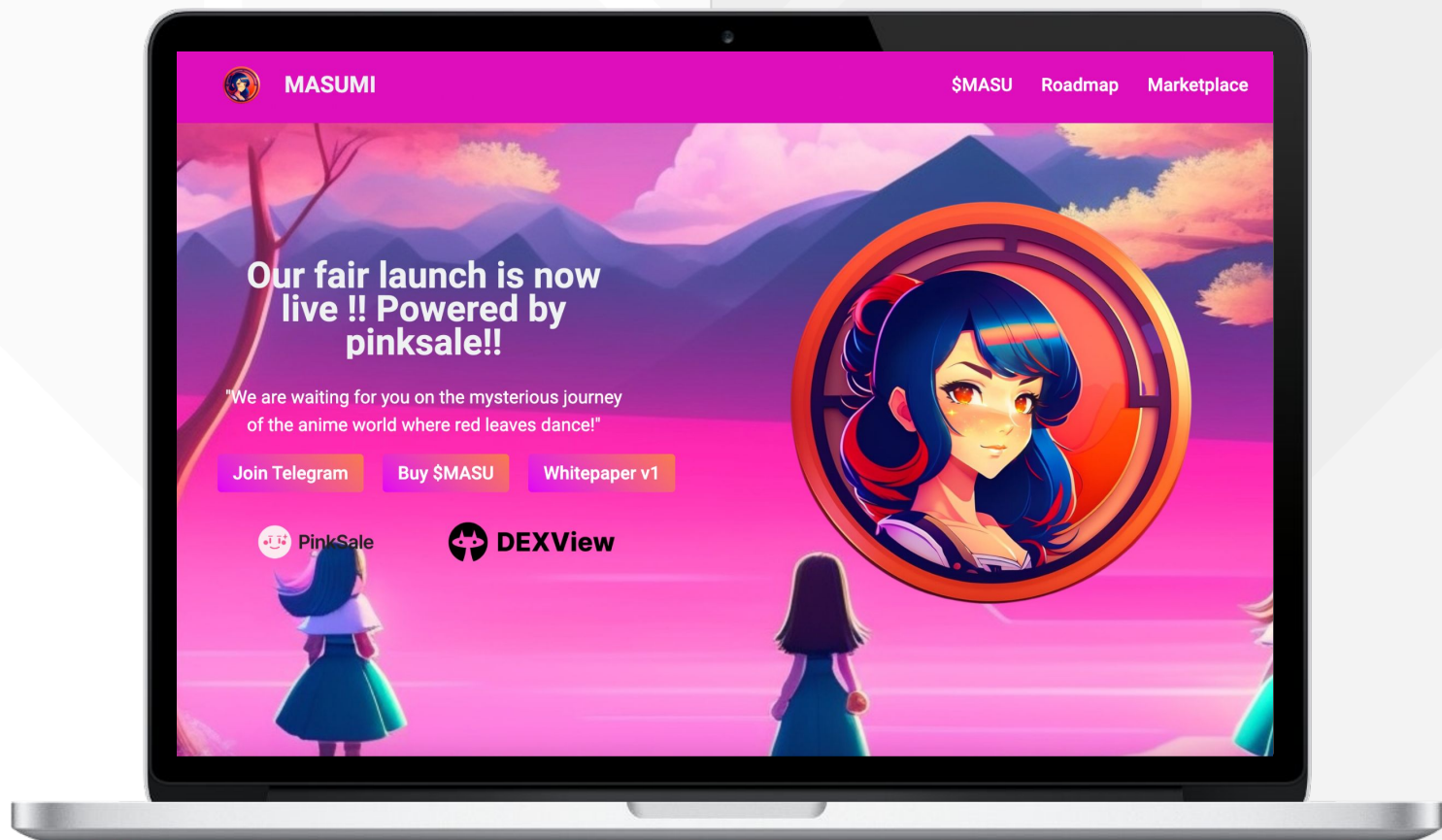
Yes

Roadmap

Yes, goals set without time frames.

Mobile-friendly?

Yes



masumichain.com

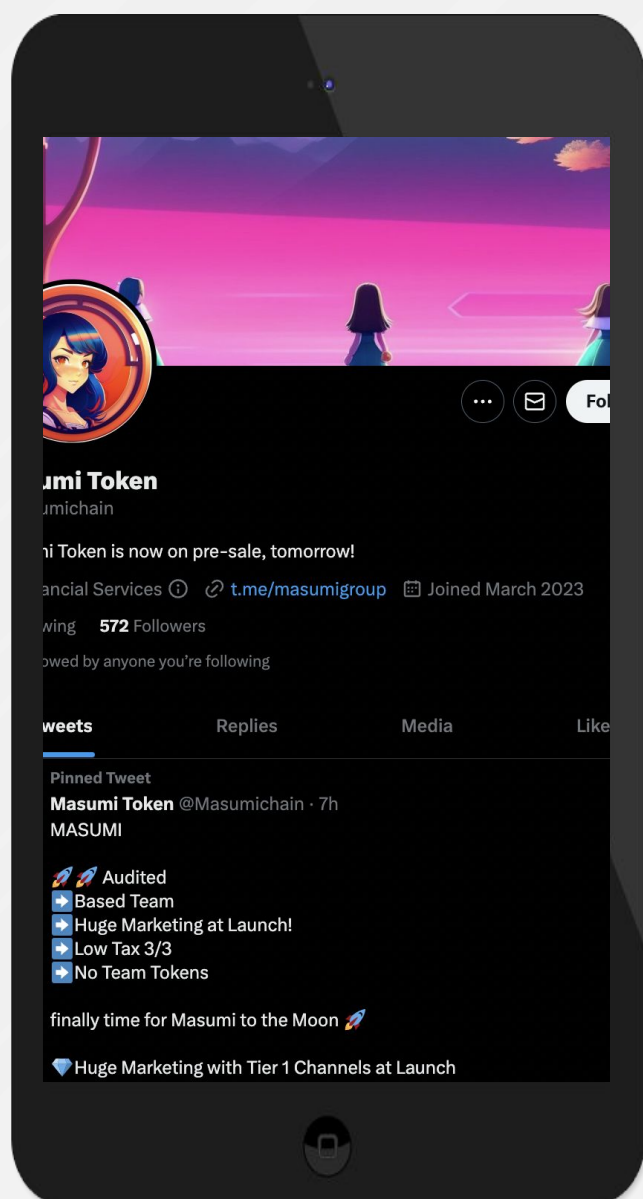


SOCIAL MEDIA & ONLINE PRESENCE



ANALYSIS

Project's social media
pages are active



Twitter

@masumichain

- 560 followers
- 6 total posts
- New account



Discord

- Not available



Telegram

@masumigroup

- 379 members
- Active members
- Active mods



Medium

- Not available



SPYWOLF

CRYPTO SECURITY

Audits | KYCs | dApps
Contract Development

ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.